

Experiment Number: 413793

Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**

G06: Ames Summary Data

Test Compound: **Acetaminophen (4-hydroxyacetanilide)**

CAS Number: **103-90-2**

Date Report Requested: **09/14/2018**

Time Report Requested: **23:25:25**

NTP Study Number:

413793

Study Result:

Negative

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G06: Ames Summary Data

Test Compound: Acetaminophen (4-hydroxyacetanilide)

CAS Number: 103-90-2

Date Report Requested: 09/14/2018

Time Report Requested: 23:25:25

Strain: TA100

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-------------|-------------|-----------------|-----------------|---------------------|
| Vehicle Control ¹ | 141 ± 12.2 | 110 ± 5.8 | 145 ± 13.5 | 97 ± 8.0 | 117 ± 6.1 |
| 100.0 | 138 ± 4.3 | 104 ± 11.3 | 143 ± 6.7 | 101 ± 3.7 | 109 ± 11.4 |
| 333.0 | 131 ± 6.0 | 115 ± 6.5 | 132 ± 5.8 | 120 ± 9.2 | 107 ± 5.5 |
| 1000.0 | 145 ± 6.3 | 94 ± 2.6 | 141 ± 8.3 | 104 ± 6.5 | 114 ± 6.2 |
| 3333.0 | 140 ± 12.1 | 106 ± 10.3 | 141 ± 3.8 | 108 ± 6.7 | 112 ± 5.3 |
| 10000.0 | 119 ± 13.0 | 93 ± 6.2 | 137 ± 4.7 | 87 ± 6.7 | 96 ± 0.7 |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | | | 1983 ± 73.9 |
| Positive Control ³ | | | 1731 ± 125.8 | 1055 ± 40.6 | |
| Positive Control ⁴ | 2102 ± 41.3 | 1190 ± 57.0 | | | |

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CAS Number: 103-90-2

Date Report Requested: 09/14/2018

Time Report Requested: 23:25:25

Strain: TA100

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 91 ± 5.7 |
| 100.0 | 95 ± 2.0 |
| 333.0 | 91 ± 1.9 |
| 1000.0 | 85 ± 4.0 |
| 3333.0 | 100 ± 8.9 |
| 10000.0 | 87 ± 8.1 |
| Trial Summary | Negative |
| Positive Control ² | 1262 ± 13.9 |
| Positive Control ³ | |
| Positive Control ⁴ | |

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Test Compound: Acetaminophen (4-hydroxyacetanilide)
CAS Number: 103-90-2

Date Report Requested: 09/14/2018

Time Report Requested: 23:25:25

Strain: TA1535

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-------------|------------|-----------------|-----------------|---------------------|
| Vehicle Control ¹ | 17 ± 3.2 | 17 ± 2.1 | 10 ± 1.7 | 11 ± 0.7 | 12 ± 2.0 |
| 100.0 | 25 ± 2.2 | 17 ± 2.9 | 12 ± 0.3 | 8 ± 0.7 | 6 ± 1.8 |
| 333.0 | 23 ± 1.8 | 15 ± 1.5 | 9 ± 1.5 | 12 ± 1.9 | 8 ± 0.3 |
| 1000.0 | 18 ± 1.2 | 13 ± 1.2 | 9 ± 1.2 | 10 ± 3.2 | 9 ± 2.3 |
| 3333.0 | 16 ± 2.2 | 15 ± 3.2 | 9 ± 1.0 | 10 ± 0.9 | 6 ± 1.3 |
| 10000.0 | 18 ± 2.1 | 13 ± 1.2 | 8 ± 1.5 | 8 ± 0.6 | 7 ± 1.5 |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | | | 119 ± 15.5 |
| Positive Control ³ | | | 68 ± 8.7 | 60 ± 4.9 | |
| Positive Control ⁴ | 1524 ± 39.8 | 990 ± 28.4 | | | |

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Test Compound: Acetaminophen (4-hydroxyacetanilide)

CAS Number: 103-90-2

Date Report Requested: 09/14/2018

Time Report Requested: 23:25:25

Strain: TA1535

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 8 ± 1.2 |
| 100.0 | 8 ± 0.3 |
| 333.0 | 10 ± 3.8 |
| 1000.0 | 10 ± 1.2 |
| 3333.0 | 12 ± 2.0 |
| 10000.0 | 13 ± 1.2 |
| Trial Summary | Negative |
| Positive Control ² | 74 ± 2.9 |
| Positive Control ³ | |
| Positive Control ⁴ | |

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G06: Ames Summary Data

Test Compound: Acetaminophen (4-hydroxyacetanilide)

CAS Number: 103-90-2

Date Report Requested: 09/14/2018

Time Report Requested: 23:25:25

Strain: TA1537

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|------------|------------|-----------------|-----------------|---------------------|
| Vehicle Control ¹ | 5 ± 0.6 | 7 ± 2.0 | 14 ± 0.3 | 9 ± 2.8 | 9 ± 2.6 |
| 100.0 | 9 ± 2.6 | 7 ± 2.6 | 8 ± 2.1 | 7 ± 2.4 | 8 ± 0.9 |
| 333.0 | 7 ± 1.9 | 8 ± 0.7 | 13 ± 0.9 | 11 ± 1.9 | 10 ± 2.6 |
| 1000.0 | 4 ± 0.6 | 5 ± 1.5 | 11 ± 3.2 | 6 ± 1.2 | 10 ± 1.5 |
| 3333.0 | 6 ± 0.3 | 7 ± 1.3 | 8 ± 0.9 | 8 ± 1.9 | 9 ± 1.5 |
| 10000.0 | 4 ± 0.6 | 5 ± 0.6 | 9 ± 1.8 | 9 ± 1.5 | 9 ± 2.6 |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | | | 159 ± 14.6 |
| Positive Control ³ | | | 133 ± 1.7 | 67 ± 0.9 | |
| Positive Control ⁵ | 199 ± 24.5 | 383 ± 20.1 | | | |

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Test Compound: Acetaminophen (4-hydroxyacetanilide)
CAS Number: 103-90-2

Date Report Requested: 09/14/2018

Time Report Requested: 23:25:25

Strain: TA1537

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 8 ± 2.1 |
| 100.0 | 9 ± 0.9 |
| 333.0 | 6 ± 0.9 |
| 1000.0 | 7 ± 1.5 |
| 3333.0 | 7 ± 0.3 |
| 10000.0 | 6 ± 0.3 |
| Trial Summary | Negative |
| Positive Control ² | 124 ± 6.3 |
| Positive Control ³ | |
| Positive Control ⁵ | |

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Test Compound: Acetaminophen (4-hydroxyacetanilide)
CAS Number: 103-90-2

Date Report Requested: 09/14/2018

Time Report Requested: 23:25:25

Strain: TA98

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-------------|-------------|-----------------|-----------------|---------------------|
| Vehicle Control ¹ | 18 ± 3.2 | 14 ± 1.2 | 26 ± 5.3 | 25 ± 3.6 | 27 ± 4.1 |
| 100.0 | 19 ± 2.2 | 14 ± 1.5 | 27 ± 2.2 | 24 ± 3.0 | 31 ± 3.3 |
| 333.0 | 18 ± 2.3 | 20 ± 2.7 | 34 ± 2.1 | 30 ± 2.0 | 26 ± 4.5 |
| 1000.0 | 16 ± 1.2 | 14 ± 1.7 | 28 ± 3.2 | 24 ± 4.5 | 29 ± 3.2 |
| 3333.0 | 17 ± 3.1 | 16 ± 0.9 | 25 ± 4.0 | 24 ± 4.5 | 26 ± 1.5 |
| 10000.0 | 16 ± 2.3 | 14 ± 0.3 | 26 ± 3.0 | 20 ± 2.3 | 19 ± 1.8 |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | | | 1945 ± 17.2 |
| Positive Control ³ | | | 1657 ± 37.9 | 1022 ± 28.3 | |
| Positive Control ⁶ | 1779 ± 27.1 | 1440 ± 77.0 | | | |

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Test Compound: Acetaminophen (4-hydroxyacetanilide)

CAS Number: 103-90-2

Date Report Requested: 09/14/2018

Time Report Requested: 23:25:25

Strain: TA98

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | Toxic |
| 100.0 | 21 ± 2.7 |
| 333.0 | 25 ± 2.9 |
| 1000.0 | 24 ± 4.5 |
| 3333.0 | 25 ± 3.1 |
| 10000.0 | 22 ± 1.3 |
| Trial Summary | Negative |
| Positive Control ² | 1668 ± 49.5 |
| Positive Control ³ | |
| Positive Control ⁶ | |

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LEGEND

Values given as Mean or Mean \pm Standard Error Mean

The number of samples = 3, unless samples marked toxic or contaminated were excluded from mean and SEM calculations

CAS Number = Chemical Abstracts Service registry number

1: Vehicle Control: Dimethyl Sulfoxide

2: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****